

# ISMAEL GALARZA

ACTIVE SECRET SECURITY CLEARANCE

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## **PROFESSIONAL SUMMARY**

Army Veteran and Bachelor's software development graduate from ECPI University with a strong foundation in programming principles across multiple platforms, as well as the software development life cycle. A background in Unmanned Aircraft Systems (UAS) repair, UAS Piloting, UAS Testing, software development, and experience in object-oriented programming. Customer service and results-focused with strong written and verbal communication skills. Coachable, fast learner willing to learn new technologies, seeking to enhance development skills while managing expectations.

## **TECHNICAL SKILLS & QUALIFICATIONS**

**Languages:** PHP, JavaScript, Java, Dart, CSS, SQL, HTML, C, C#, Python

**Operating Systems:** Windows 7, 10, Linux, Mac OS

**Software:** Visual Studio Code, Notepad++, DEV-C++, Microsoft Office Suite.

Node.js, GitHub, GitLab, TensorFlow, and Jupyter Notebook.

**Versioning:** Git

**Database Management:** MySQL, Oracle

**Cloud Solutions:** Firebase, AWS S3

**Project Management:** Slack, Microsoft Teams

**Framework:** Bootstrap, React.js, Flutter, React Native

**Autopilots:** Piccolo Command Center (PCC), Quattro, and Vigilant Spirit

## **EDUCATION**

**Bachelor's of Science in Computer Information and Science, Major: Software Development**

*ECPI University Online* – Virginia Beach, VA

- Summa Cum Laude (3.94 GPA)

**Associate of Arts and Science in Unmanned Aerial Vehicle Technician**

*Cochise College* – Sierra Vista, AZ

- Summa Cum Laude (4.0 GPA)

## **CERTIFICATIONS**

**NVIDIA:** Fundamentals of Deep Learning

**NVIDIA:** Generative AI with Diffusion Models

## **MILITARY EXPERIENCE**

**Unmanned Aircraft Mechanic,**

Oct 2008 – Current

Sergeant First Class | *North Carolina Army National Guard* – Fort Bragg, NC

- Network all thin clients to the server database within the Flight facility for optimal usage.
- Troubleshoot and maintain avionics, fiber optic cabling, and coaxial cables for aircraft serviceability.

- Conduct backups, develop SQL databases, and manage the aviation maintenance record-keeping system.
- Update all software for aircraft, ground control stations, and landing systems as needed.
- Train over 50 soldiers on the Shadow 200 aircraft in preparation for upcoming deployments and training exercises.

## FURTHER WORK EXPERIENCE

### UAV Systems Engineer & Air Vehicle Operator

April 2024 – Current

*Platform Aerospace* | Hollywood, MD | 180 Hours

- Integrated the Quattro autopilot into the Vanilla Ultra Long Endurance (ULE) UAS system.
- Utilized Python and C# to automate TCP, UDP, and Multicast networks, enabling the connection of UAS radio links to the Vanilla Platform.
- Conducted Flight operations and flight planning and instructed employees on autopilot logic and theory to complete the mission overseas.
- Tested different payload components like VOIP radios, gimbal cameras, and Anti-Jamming solutions.
- Parsed data to determine cases of mishaps, aircraft autopilot tuning, and network usage.
- Perform Pilot-in-command duties for Research and development testing.
- Created an MVVM plugin that is used in everyday flight operations. The Plugin contains widgets such as Engine propeller data, Engine temperatures, External IO devices, and all user interface-embedded checklists programmed in C# and XML.

### Flight Test Operator | Research and Development

June 2021 – April 2024

*AeroVironment Inc.* | Petaluma, CA | 525 Flight Hours

- Updated and troubleshoot software, firmware, and signal for all Jumps 20 ground support equipment.
- Utilized programming skills to add, remove, or update items in XML within the Vigilant Spirit Autopilot to accommodate all end users during a demonstration for JSOC and Army personnel.
- Repaired and maintained four of AeroVironment's multi-million dollar Jump 20 Unmanned Aircraft for missions.
- Mentored new Jump 20 mechanics on airframe, software, and avionics, adhering to company policies and standards.
- Operated Jump 20 aircraft in Maritime and land-based operations.

#### Accomplishments:

- Recommended for the Maintenance Lead position because of keeping the equipment mission-capable for 6 out of 7 required months.
- Integrated and tested a new Autopilot called Quattro at the Jump 20
- Completed the dual qualification course while serving as an Aircraft Operator and Mechanic during overseas deployments.

### Wire Technician

May 2013 – Oct 2018

*AT&T Corporation* | Goldsboro, NC

- Installed and configured business customers' modems, routers, and static IP addresses to ensure all business customers' systems can run properly with AT&T internet.
- Repaired and maintained copper and fiber optic telephone lines for voice over internet protocol (VoIP) and internet on residential and business customers.
- Trained 10 Wire Technicians on safety, wiring diagrams, and configuration of the static IP address for business customers.

#### Accomplishments:

- Received multiple 5-star awards for having above-and-beyond metrics supported by customer surveys/feedback.

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## References

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